FORM	4
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(Print or Type Responses)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Thit of Type Responses)											
1. Name and Address of I Hall Jeffrey	2. Issuer Name an KLA TENCOR			<i>.</i>	ol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) C/O KLA-TENCOR ROBLES	3. Date of Earliest 7 12/03/2004	Fransaction	(Mon	th/Day/Y	ear)	ĺ	X_Officer (give title below)Other (specify below) VP, Corporate Finance				
SAN JOSE, CA 951	4. If Amendment, D	Date Origina	ıl File	d(Month/Da	y/Year)		6. Individual or Joint/Group FilingCheck Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	Date Execution Date, if Code or Dis				4. Securi or Dispo (Instr. 3,	sed of (D)	Owned Following Reported	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership	
			(Wohth/Day/Tear)	Code	v	Amount	(A) or (D)	Price	(list. 5 and 4)	or Indirect (I) (Instr. 4)	
Common Stock		12/03/2004		М		3,000	А	\$ 29.31	3,981	D	
Common Stock		12/03/2004		S		3,000	D	\$ 49.6833	981	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

				(<i>e.g</i> ., pu	ts, ca	alls, v	varrant	s, options, con	vertible securi	ties)			-	-			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	Derivative		vative urities uired or oosed D) tr. 3, 4,	(Month/Day/Year)		e of Underlying ear) Securities (Instr. 3 and 4)		of Underlying I Securities S (Instr. 3 and 4) (Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s)	Derivative Security: Direct (D) or Indirect	Beneficial
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Non- Qualified Stock Option (right to buy)	\$ 29.31	12/03/2004		М			3,000	10/02/2002	10/02/2011	Common Stock	3,000	\$ 49.6833	19,500	D			
Non- Qualified Stock Option (right to buy)	\$ 34.67							11/08/2003	01/28/2013	Common Stock	5,500		5,500	D			
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/08/2003	11/08/2012	Common Stock	3,250		3,250	D			

Non- Qualified Stock Option (right to buy)	\$ 40.66			10/27/2004	08/02/2014	Common Stock	1,950	1,950	D	
Non- Qualified Stock Option (right to buy)	\$ 41.79			09/21/2005	09/21/2014	Common Stock	20,000	20,000	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16			10/26/2004	04/26/2014	Common Stock	3,250	3,250	D	
Non- Qualified Stock Option (right to buy)	\$ 46.67			11/10/2001	07/10/2011	Common Stock	35,811	35,811	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	3,250	3,250	D	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	5,200	5,200	D	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	2,600	2,600	D	

Reporting Owners

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Hall Jeffrey C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			VP, Corporate Finance						

Signatures

By: Stuart J. Nichols For: Jeffrey L. Hall	12/06/2004	
Signature of Reporting Person	Date	

Explanation of Responses:

 \star If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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